PROJECT NUMBER: 2307
PROJECT TITLE: Basic Flavor Investigation
PROJECT LEADER: R. W. Hale
PERIOD COVERED: June, 1989

I. ANALYTICAL SUPPORT

A. Objective: To provide analytical support for activities related to development and application of flavoring materials.

B. Status:

1. Glycerin/Triacetin: Cigarettes prepared using the natural/synthetic blended triacetin on the filter plugs were subjectively evaluated. All test cigarettes were found to be different than the Celanese synthetic triacetin control.

   Method development for in-house triacetin odor evaluation continues.

2. Marlboro Standardization: GC profiles and GC/MS identification of the components have been completed for the following preblends for Marlboro Standardization Run VII:

75-243	75-133
75-197	75-185
75-184	75-605

3. Cambridge: Ethanol, water and propylene glycol were run on five Cambridge aftercut flavors.

4. Trim V (Menthol): GC profiles were run on two concentrates and the finished aftercut.

5. External Analytical Support: The analysis of anethole on 41 filler and 8 aftercut samples has been completed for the aftercut application optimization study in Semi-works.

   Ethanol, water and propylene glycol were determined on casings and aftercuts for different projects.

6. Miscellaneous Internal Analytical Support: Analyses were completed for 15 casings and aftercuts for different projects in the Flavor Division.

   Humectants and sugars were analyzed by HPLC for 11 samples.

II. BASIC FLAVOR INVESTIGATION:

A. Objective: To develop basic and applied knowledge for the purpose of flavor improvement or modification of existing products and to provide the basis for development and application of flavor technology for new, unique products.

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B. **Status**:

1. Low Tar/High Flavor: Fractionation of the TPM from 2800 Marlboro 100 cigarettes into the acidic, basic and neutral fractions has been completed. Identification of the components in TPM continues.

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